DIGITAL AUDIO
RECORDING
TECHNOLOGY

DA-2
DIGITAL TO
ANALOGUE CONVERTER

Dream DA-2 — Prism Sound

" The definitive D/A converter for monitoring and enjoyment of music "

" exceptional definition and a precise stereo image provided by a high-order jitter rejection phase-locked loop system "

" Unmatched sonic clarity - resulting from cutting-edge performance specifications "

" accepts all popular interface formats including the two-wire and double-speed AES variants for higher-rate sampling "

" performance you can rely on for years to come "

The D/A conversion of musical signals is a key stage in the monitoring or reproduction chain. For professionals, a precise rendition of a recording is essential in order to correctly perform post production tasks and it enables the listener at home to hear exactly what the engineer or producer intended.

But in today's rapidly-changing media industry, it can be difficult to identify the right way forward for recording facilities. As a result, investment in new technology is inevitably linked with concern about recording formats and future compatibility.

The Dream DA-2 is the definitive music D/A converter, providing the most accurate rendition of an audio event whether it be early music, classical, jazz, big band, a club mix or the hardest of hard rock.

The DA-2 conversion system provides an audio output of such exceptional quality that it will be relied upon for years to come as the definitive source for productions on CD, DVD, Super Audio CD or other formats as they become available.

Prism Sound have been at the forefront of high-quality professional audio for a decade and have contributed widely to the body of knowledge available in the industry, especially in topics such as jitter, conversion quality, signal processing, test and measurement.
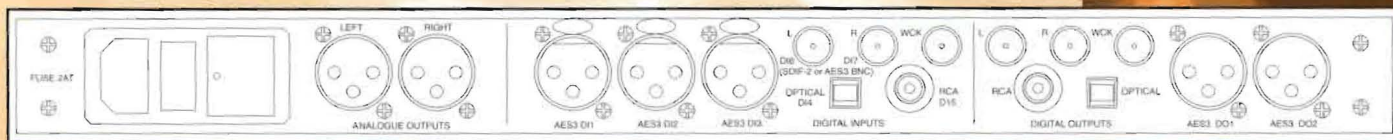
Prism Sound

AD-124

DA-1

AD-2

DA-2

DREAM DA-2 DIGITAL TO ANALOGUE CONVERTER

MONITOR CD OR NEW MEDIA PRODUCTIONS WITH TOTAL PRECISION

Switching to the DA-2 in your monitoring chain will make a big difference. Using four times the bit-rate of most other over-sampling D/A converters and a proprietary architecture, the DA-2 provides a reference-grade audio output of unmatched quality and precision. The DA-2 has exceptionally low distortion and noise but these figures alone are insufficient to ensure top performance. Level-dependent gain linearity and jitter rejection are among the other important tests at which the DA-2 excels.

USE THE DA-2 AS YOUR STUDIO CLOCK REFERENCE

The DA-2 can operate in 'Master Clock' mode where the D/A converter timing is generated internally from a precision reference, by-passing the synchronizing PLL system altogether. If your external equipment supports it, you can use the DA-2 in this mode for the ultimate in D/A conversion quality.

USE THE DA-2 AS THE BASIS OF A STUDIO MONITORING SYSTEM

With its 7-way input selector and feed-through output (for example: driving a digital PPM) the DA-2 can be used as the heart of your digital audio monitoring system.

MONITOR HIGH-RESOLUTION RECORDINGS MADE ON 16-BIT MEDIA USING THE PRISM SOUND DRE ENCODING SYSTEM

The DA-2 supports DRE decoding so that extended dynamic range recordings can be monitored. The feedthrough outputs provide a decoded feed suitable for a 20-bit (or more) recorder.

MONITOR THE NEW HIGH-RATE (E.G. 96KHZ) DIGITAL INTERFACE FORMATS

The DA-2 provides support for both two-wire and double-speed AES variants now in use for higher-rate recording projects (typically 96kHz 24-bit).

COMPATIBLE WITH ALL WORDLENGTHS FROM 16 TO 24 BITS

The DA-2 is fully compatible with recordings made at any wordlength up to 24-bits, with or without noise-shaping. No adjustment is needed for sources driving only 16 bits on the interface.

Note: Recordings processed using SNS noise-shaping are fully compatible with all domestic CD and DVD players and will yield exceptional results. Best results will be obtained when listening with higher-specification D/A converters such as DA-2 and DA-1 converters.

EASY TRANSFER BETWEEN TAPE AND DISK

The DA-2 can act as a format converter and jitter attenuator using its array of input formats and its digital outputs. For example, it can convert between AES3 and SDIF-2 or from Toslink optical to AES3. It can also convert from double speed AES (typically 96kHz) to the two-wire interface format.

ASK FOR A DEMONSTRATION

Call us now for details of your nearest distributor and ask for an on-site demonstration. For further technical information, phone or fax Prism Sound or e-mail sales@prismsound.com.

D/A CONVERTER SPECIFICATIONS

Full Scale Output signal level : +5dBu to +28dBu in steps of 1dB and 0.05dB
Output impedance :
    Differential : 47Ω   Single-ended : 24Ω
Common mode voltage range : 70V
Dynamic range : >117dB unweighted RMS
High-level THD+n : < -104dB unweighted RMS
Intermodulation distortion : < -90dB
Spurious aharmonics : < -125dBFS
Crosstalk : < -100dB 20Hz to 20kHz
Level dependent linearity : <<3dB at -144dBFS

SAMPLE RATES : 32, 44.1, 48, 88.2, 96kHz ±0.15%
Non-standard ranges : 30–50kHz, 60–100kHz

JITTER

Attenuation slope : 80dB/decade
Corner frequency : approx. 80Hz
Attenuation above 500Hz : greater than 60dB

DIGITAL INPUTS

DI1 : AES/EBU 110Ω supports higher-rate sampling (HRS : e.g. 96kHz) at double speed
DI2 & 3 : AES/EBU 110Ω These inputs support HRS at double speed and in two-wire format
DI4 : Toslink Optical - S/PDIF high and low rates
DI5 : RCA/Phono - S/PDIF high and low rates
DI6 & 7 :BNC L & BNC R - AES3-id 75Ω
Both support HRS double speed or two-wire and SDIF-2 at high and low rates.

DIGITAL OUTPUTS

DO1 & 2 : AES/EBU 110Ω Both support HRS (e.g. 96kHz) double speed or two-wire
BNC L and BNC R : SDIF-2 high and low rates
Toslink Optical : S/PDIF high and low rates
RCA/Phono : S/PDIF high and low rates

POWER:

External selector : 90-120V or 195-250V.
Consumption : 30W

DIMENSIONS :

Height : 1 rack unit (44mm)
Width : 19-inch rack (438mm)
Depth : 10.25 inches (260mm)
Weight : 8.8lb (4kg)